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## In the Claims

## 1-11 (canceled)

12. (currently amended) A <u>method</u> of coating <del>method as recited in Claim</del>

11 wherein the carbon depositing step inc udes an electron impact surface of an anode with pyrocarbon, comprising:

coating the electron impact surface with a carbonizable resin; carbonizing the resin to form a char

directing a flow of hydrocarbon gas over the electron impact surface after heating the electron impact surface to at least 1000°C, to form a coating of pyrocarbon on the char; and

removing any residual water from the pyrocarbon coating.

- 13. (previously added) A coating n ethod as recited in Claim 12 wherein the removing water step includes heating the anode to at least 100°C in a vacuum.
- 14. (currently amended) A coating method as recited in Claim 11 12 wherein:

the carbonizable resin has volatile components; and carbonizing the resin includes heating the anode to a temperature sufficient to decompose the resin and release the volatile components, whereby the char is left as a porous residue.

- 15. (previously added) A coating method as recited in Claim 14 wherein the carbonizing step includes heating the anode to a temperature of at least 700°C in a non-oxidizing atmosphere.
- 16. (previously added) A coating method as recited in Claim 15 wherein the carbonizable resin is a phenolic.

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19. (previously added) A coating method as recited in Claim 14 wherein the heating step includes baking the anode in an oven providing a non-oxidizing atmosphere.

20-22 (canceled)